



Anti-NDUFV1 (aa 365-464) polyclonal antibody (DPAB-DC2009)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The mitochondrial respiratory chain provides energy to cells via oxidative phosphorylation and consists of four membrane-bound electron-transporting protein complexes (I-IV) and an ATP synthase (complex V). This gene encodes a 51 kDa subunit of the NADH:ubiquinone oxidoreductase complex I; a large complex with at least 45 nuclear and mitochondrial encoded subunits that liberates electrons from NADH and channels them to ubiquinone. This subunit carries the NADH-binding site as well as flavin mononucleotide (FMN)- and Fe-S-binding sites. Defects in complex I are a common cause of mitochondrial dysfunction; a syndrome that occurs in approximately 1 in 10,000 live births. Mitochondrial complex I deficiency is linked to myopathies, encephalomyopathies, and neurodegenerative disorders such as Parkinsons disease and Leigh syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009]
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Immunogen	NDUFV1 (NP_002466, 365 a.a. ~ 464 a.a) partial recombinant protein with GST tag. The sequence is KAIARLIEFYKHESCGQCTPCREGVDWMNKVMARFVRGDARPAEIDSLWEISKQIEGHTI CALGDGAAWPVQGLIRHFRPELEERMQRFAQQHQARQAAS
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Source/Host	Mouse
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Species Reactivity	Human
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Conjugate	Unconjugated
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Applications	WB (Recombinant protein), ELISA,
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Size	50 µl
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Buffer	50 % glycerol
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Preservative	None
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Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	NDUFV1 NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa [Homo sapiens (human)]
Official Symbol	NDUFV1
Synonyms	NDUFV1; NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa; UQOR1; CI-51K; CI51KD; NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial; complex I 51kDa subunit; complex I 51 kda subunit; complex I, mitochondrial respiratory chain; NADH-ubiquinone oxidoreductase 51 kDa subunit; mitochondrial NADH dehydrogenase ubiquinone flavoprotein 1; mitochondrial NADH:ubiquinone oxidoreductase 51 kda subunit;
Entrez Gene ID	4723
Protein Refseq	NP_001159574
UniProt ID	P49821
Chromosome Location	11q13
Pathway	Alzheimers disease; Electron Transport Chain; Huntingtons disease; NADH dehydrogenase (ubiquinone) Fe-S protein/flavoprotein complex, mitochondria
Function	4 iron, 4 sulfur cluster binding; FMN binding; NAD binding; NADH dehydrogenase (ubiquinone) activity